ALUMINUM MELT CLEANLINESS PERFORMANCE EVALUATION USING PoDFA (POROUS DISK FILTRATION APPARATUS) TECHNOLOGY

Carmen STANIC A1, Petm MOLDOVA N2

Prezența incluziundor nemetalisec solide în alsigele de aliminiu poute provoca soliderea valordor proprintăților mecanice ale producelor turnate, creșterea provintății paznase, o prelucrabilitate prin așelucre slabă, micporarea fluidătății și o calitate slabă a suprafeței.

Tehnicile pentru determinarea incluzionlor pot fi: metalografie cantitativà, analize chimice, teste volumetrice, tehnici nedatmetrice si altele.

Scapul lucrării este studiul evaluării purității tapiturdor din aliaje de aluminiu 5003 prin telmica PaDFA.

Datele objimate prin analiză arată că probele din aliaj 5053 sunt pure. Conținutul de incluzioni este cupritu între 0.011 mm²kg și 0.025 mm²kg, principalele incluzioni fând TiB₂, Al₂C₆, Al₂O₆, MgO; spinel și material refractar.

The presence of solid non-metallic inclusions in aluminum alloys can cause reduction in mechanical properties of eastings, increased gas permits; poor machinability, decrease in fliciality and poor surface quality.

Techniques for inclusions assessment can be: quantitative metallographs, chemical analysis, volumetric tests, nondestructive techniques and so on.

The focus of this paper is to study the assessment of med eleardiness in 5063 also insum allow using PoDFA technique.

Analysis data reflect the clearliness of 5003 alloys actually sampled. The inclusions content was between 0.011 mm kg and 0.025 mm kg, the main inclusions being Tills. Al.C., Al.O., MgO, spine land refractory material.

Keywords: aluminum, cleanliness, PoDFA, inclusions

I. Introduction

Aluminum alloys are characterized by their low specific weight, low melting point, negligible gas solubility with the exception of hydrogen, excellent castability, good machinability, and good corrosion resistance. Premium quality castings are an essential requisite for the critical structural components used in automotive and aeromutics. The production of such castings requires that inclusions and porosity be minimized (or even eliminated) to supress their

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<u>Aluminum Melt Cleanliness Performance Evaluation</u> <u>Using Podfa</u>

John Grandfield, Dmitry Eskin

Aluminum Melt Cleanliness Performance Evaluation Using Podfa:

Light Metals 2024 Samuel Wagstaff, 2024-02-03 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2024 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Scandium Extraction and Use in Aluminum Alloys Chapter's Online Monitoring of Metal Oxides in Molten Fluoride Electrolytes is available open access under a Creative Commons Attribution 4 0 International Light Metals 2020 Alan Tomsett, 2020-01-28 The Light Metals symposia at the TMS Annual License via Springerlink Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2020 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology Cast Shop Technology Cast Shop Technology Recycling and Sustainability Joint Session Electrode Technology for Aluminum Production in Light Metals, Cast Shop for Aluminum Production John Grandfield, D. G. Eskin, 2013-04-03 ONE OF A FOUR BOOK COLLECTION SPOTLIGHTING CLASSIC ARTICLES Original research findings and reviews spanning all aspects of the science and technology of casting Since 1971 The Minerals Metals Materials Society haspublished the Light Metals proceedings Highlighting some of the most important findings and insights reported over the pastfour decades this volume features the best original research papers and reviews on cast shop science and technology for aluminum production published in Light Metals from 1971 to 2011 Papers have been divided into ten subject sections for ease ofaccess Each section has a brief introduction and a list ofrecommended articles for researchers interested in exploring each subject in greater depth Only 12 percent of the cast shop science and technology papersever published in Light Metals were chosen for this volume Selection was based on a rigorous review process Among the papers readers will find landmark original research findings and expertreviews summarizing current thinking on key topics at the time of publication From basic research to industry standards to advanced applications the articles published in this volume collectively represent a complete overview of cast shop science and technology supporting the work of students researchers and engineers aroundthe world **Essential** Readings in Light Metals, Volume 3, Cast Shop for Aluminum Production John Grandfield, Dmitry Eskin, 2016-12-23 ONE OF A FOUR BOOK COLLECTION SPOTLIGHTING CLASSIC ARTICLES Original research findings and reviews spanning all aspects of the science and technology of casting Since 1971 The Minerals Metals Materials Society has published the Light Metals proceedings Highlighting some of the most important findings and insights reported over the past four decades

this volume features the best original research papers and reviews on cast shop science and technology for aluminum production published in Light Metals from 1971 to 2011 Papers have been divided into ten subject sections for ease of access Each section has a brief introduction and a list of recommended articles for researchers interested in exploring each subject in greater depth Only 12 percent of the cast shop science and technology papers ever published in Light Metals were chosen for this volume Selection was based on a rigorous review process Among the papers readers will find landmark original research findings and expert reviews summarizing current thinking on key topics at the time of publication From basic research to industry standards to advanced applications the articles published in this volume collectively represent a complete overview of cast shop science and technology supporting the work of students researchers and engineers around Light Metals 2014 John Grandfield, 2016-12-23 The Light Metals symposia are a key part of the TMS Annual Meeting Exhibition presenting the most recent developments discoveries and practices in primary aluminum science and technology Publishing the proceedings from these important symposia the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2014 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Fabrication Characterization and Applications Aluminum Processing Aluminum Reduction Technology Cast Shop for Aluminum Production Electrode Technology for Aluminum Production Light metal Matrix Nano composites Light Metals 2022 Dmitry Eskin, 2022-02-05 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2022 collection includes contributions from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology Aluminum Reduction Technology Joint Session with REWAS Decarbonizing the Metals Industry Cast Shop Technology Electrode Technology for Aluminum Production Primary Aluminum Industry Energy and Emission Reductions An LMD Symposium in Honor of Halvor Kvande Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2022 Liaht Metals 2013 Barry Sadler, 2013-02-21 The Light Metals series is widely recognized as the definitive source of information on new developments in aluminum production technology This new volume presents proceedings from 2013 s Light Metal Symposia covering the latest research and technologies on such areas as alumina and bauxite aluminum reduction technology electrode technology for aluminum production cast shop for aluminum production aluminum processing aluminum alloys and cost affordable titanium IV It also includes papers from a keynote presentation session discussing impurities in the aluminum supply chain are also included **Light Metals 2012** Carlos E. Suarez, 2012-05-11 An update of the definitive annual reference source in the field of aluminum production and related light metals technologies a great mix of materials science and practical applied technology surrounding aluminum bauxite aluminum reduction rolling casting and

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